## ThinkCentre® M91p Tower (7052) - TopSeller - III

Slot of Slot o	Processor	Memory <sup>8</sup>	SATA disk 2 GB rpm	2nd Disk Bay	SATA optical	Graphics	Chassis intr switch		ENERGY STAR 5.0		Global Educ		Ann date (mm/dd/yy)	
7052-B7U 4x5 7052-B8U 4x5	Core i7-2600 Core i5-2500	2GBx1 1333MHz 4GBx1 1333MHz 4GBx1 1333MHz 4GBx1 1333MHz 4GBx1 1333MHz	500G 7200 500G 7200 500G 7200	Bay Bay Bay Bay Bay		Intel HD		None None None None Media	ES50 ES50 ES50 ES50 ES50		NN	Pro 64 Pro 32 Pro 32 Pro 64 Pro 64	11/08/11 11/08/11 11/08/11 11/08/11 11/08/11	
	●The: ●The:	t Generation Intel p se small and mediu se models have a 3 se systems are Mic	ım business ( 3-year limited	(SMB) n warrant	nodels are y	part of the	US TopSe			t Techi	nology			
Positioning Processor	Ultimate security, stability, and manageability for the enterprise Intel® Core™ i5-2400 Processor (4 cores / 4 threads, 3.1GHz, 6MB cache), Virtualization Technology, Turbo Boost 2.0 (3.4GHz), integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller Intel Core i5-2500 Processor (4 cores / 4 threads, 3.3GHz, 6MB cache), Virtualization Technology, Turbo Boost 2.0 (3.7GHz), integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller Intel Core i7-2600 Processor (4 cores / 8 threads, 3.4GHz, 8MB cache), Virtualization Technology, Turbo Boost 2.0 (3.8GHz), integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller									Preloaded operating system <sup>20</sup> Some: Genuine Windows® 7 Professional 32 Some: Genuine Windows 7 Professional 64 Preloaded applications <sup>14</sup> (only some listed) • Rescue and Recovery <sup>TM</sup> • ThinkVantage® System Update • ThinkVantage Power Manager • ThinkVantage Toolbox				
Implementation		LGA1155 socket		<b>DDD</b>									1	
Memory	16GB max <sup>7</sup> ,				<ul> <li>Norton™ Internet Security 2011</li> <li>(30 days of virus definitions)</li> </ul>									
Graphics	one Max Some: AMI 512 wor Some: AMI 1GE	<ul> <li>Some: Intel HD Graphics in processor, uses main memory, HDCP, DirectX® 10.1, one VGA, one DisplayPort™, supports dual independent display; Maximum resolution: 2560x1600 (DisplayPort, VGA) @ 60Hz;</li> <li>Some: AMD Radeon™ HD 5450, PCI Express® 2.0 x16 adapter, HDCP, DirectX 11, 512MB, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 25 watts; works along with Intel HD Graphics to support four independent monitors</li> <li>Some: AMD Radeon HD 6450, PCI Express 2.0 x16 adapter, HDCP, DirectX 11, 1GB, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 25 watts; works along with Intel HD Graphics to support four independent monitors</li> </ul>								<ul> <li>Adobe® Reader®</li> <li>Skype™ for Windows</li> <li>Microsoft® Office 2010 preloaded; purchase product key to activate</li> <li>Corel® Burn.Now™ (DVD±RW)</li> <li>Corel DVD MovieFactory® (DVD±RW)</li> </ul>				
Disk Optical SATA controller SATA cables eSATA port	Super Multi- Serial ATA, Two SATA c	SATA 6.0Gb/s 7200 rpm Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset, RAID 0/1 Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors, one SATA 3.0Gb/s connector, and one eSATA connector on planar None												
Media reader	Some: 25-i	n-1 media reader, i	nternal USB	2.0										
Chipset	Intel Q67 Express Chipset Platform Controller Hub [PCH] (PCI Express 2.0 x1, ethernet MAC, PCI, and USB), SMSC® 5627P Super I/O													
Audio Speaker Ethernet Intel AMT Security chip	r ports r ports Six USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm) Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports) High Definition (HD) Audio, Realtek® ALC662 codec linternal speaker for business audio One gigabit ethernet port, Intel 82579, Wake on LAN® Intel Active Management Technology 7.1 (Intel AMT 7.1)													
Keyboard Mouse Power supply	Enhanced C 280 watts w	ro USB Keyboard (l Optical USB Mouse, ith variable speed f	, 1000 dpi, bla an, autosens	ack, Ler	iovo logo	, Lenovo®	logo							
Machine	<ul> <li>6.9" W X</li> <li>175mm W</li> <li>24.2 lb (1)</li> <li>Handle or</li> <li>Power but</li> <li>Toolless c</li> <li>Tilted fron</li> <li>Toolless d</li> </ul>	black color; metal c 17.4" D X 16.3" H ' X 442mm D X 414 1.0 kg) in maximum top front ton on top handle over removal t I/O for easy acces isk, optical drive rel dapter retention	Imm H I configuration	n		optical ② disk			Security Security Security Security Optional Recable Power-or Hard disk Boot seq Boot with Serial po	slot (in Kensin passi passi uence out ke	rear for gton® Nord word contro yboard	or attach MicroSav	ment of ver®	
Bay	Bay 1: 5.25" Bay 2: 5.25" Bay 3: 3.5", Bay 4: 3.5",	, 1.6" high, access, , 1.6" high, access, 1" high, access, op 1" high, no access, 1" high, no access,	open ot reader std disk			olsk on one		E	Individua Some: Cl EPEAT™ G ENERGY S	I USB nassis old rat STAR®	port di intrusi ting 5.0-co	on switcl		
Slot	Slot 1: half-l	ength, full-height, F ength, full-height, F	Cl Express 2	2.0 x16 (	(75w max)			F	GREENGU RoHS-com	pliant				
	Slot 3: half-l	ength, full-height, 3	2-bit PCI 2.3					<u> </u>	Supports T				ogies	
Limited Warrant	y <sup>12</sup> 3-years, lim	ength, full-height, 3 ited onsite servic blidays, next busine	<b>e</b> <sup>24</sup> , 8 am-5 p	m, Mon	- Fri cover	age	<sup>2</sup> available	r	For compatolease go to For ThinkPlates Dlease go t	o O-M lus™ s	91P sh ervice	ieet; upgrade	options,	